

Khurram Shehzad

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,596
citations

279798

23
h-index

189892

50
g-index

66
all docs

66
docs citations

66
times ranked

4227
citing authors

#	ARTICLE	IF	CITATIONS
1	2D Heterostructures for Ubiquitous Electronics and Optoelectronics: Principles, Opportunities, and Challenges. <i>Chemical Reviews</i> , 2022, 122, 6514-6613.	47.7	187
2	Graphene charge-injection photodetectors. <i>Nature Electronics</i> , 2022, 5, 281-288.	26.0	70
3	Polymerization kinetics of bicyclic olefins and mechanism with symmetrical ansa-metallocene catalysts associated with active center count: relationship between their activities and structure and activation path. <i>RSC Advances</i> , 2022, 12, 15284-15295.	3.6	6
4	Graphene Hybrid Structures for Integrated and Flexible Optoelectronics. <i>Advanced Materials</i> , 2020, 32, e1902039.	21.0	127
5	Large magnetotransport properties in mixed-dimensional van der Waals heterostructures of graphene foam. <i>Carbon</i> , 2020, 159, 648-655.	10.3	15
6	Room-temperature valleytronic transistor. <i>Nature Nanotechnology</i> , 2020, 15, 743-749.	31.5	87
7	Graphene light-field camera. <i>Nature Photonics</i> , 2020, 14, 134-136.	31.4	13
8	Approaching the Collection Limit in Hot Electron Transistors with Ambipolar Hot Carrier Transport. <i>ACS Nano</i> , 2019, 13, 14191-14197.	14.6	21
9	Micron-Scale Photodetectors Based on One-Dimensional Single-Crystalline Sb ₂ S ₃ Microrods: Simultaneously Improving Responsivity and Extending Spectral Response Region. <i>Journal of Physical Chemistry C</i> , 2019, 123, 810-816.	3.1	14
10	Near-field radiative heat transfer between black phosphorus and graphene sheet. <i>Materials Research Express</i> , 2019, 6, 025906.	1.6	7
11	Defect-induced, temperature-independent, tunable magnetoresistance of partially fluorinated graphene foam. <i>Carbon</i> , 2019, 143, 179-188.	10.3	25
12	All-Two-Dimensional-Material Hot Electron Transistor. <i>IEEE Electron Device Letters</i> , 2018, 39, 634-637.	3.9	19
13	Polyaniline/silver decorated MWCNT composites with enhanced electrical and thermal properties. <i>Polymer Composites</i> , 2018, 39, E1346.	4.6	21
14	Tailoring electrical and thermal properties of polymethyl methacrylate-carbon nanotubes composites through polyaniline and dodecyl benzene sulphonic acid impregnation. <i>Polymer Composites</i> , 2018, 39, E1052.	4.6	6
15	A high performance broadband photodetector based on (Sn _x Sb _{1-x}) ₂ Se ₃ nanorods with enhanced electrical conductivity. <i>Journal of Materials Chemistry C</i> , 2018, 6, 11078-11085.	5.5	24
16	Light-induced negative differential resistance in gate-controlled graphene-silicon photodiode. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	14
17	Synthesis of antibacterial poly(o-chloroaniline)/chromium hybrid composites with enhanced electrical conductivity. <i>Chemistry Central Journal</i> , 2018, 12, 46.	2.6	7
18	Highly efficient catalytic degradation of low-density polyethylene Using a novel tungstophosphoric acid/kaolin clay composite catalyst. <i>Turkish Journal of Chemistry</i> , 2018, 42, .	1.2	2

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19	Porous SnO ₂ nanoparticles based ion chromatographic determination of non-fluorescent antibiotic (chloramphenicol) in complex samples. <i>Scientific Reports</i> , 2018, 8, 12327.	3.3	15
20	Synthesis and antibacterial potential of hybrid nanocomposites based on polyorthochloroaniline/copper nanofiller. <i>Polymer Composites</i> , 2018, 39, 4524-4531.	4.6	12
21	Designing an Efficient Multimode Environmental Sensor Based on Graphene-Silicon Heterojunction. <i>Advanced Materials Technologies</i> , 2017, 2, 1600262.	5.8	55
22	Flexible Dielectric Nanocomposites with Ultrawide Zero-Temperature Coefficient Windows for Electrical Energy Storage and Conversion under Extreme Conditions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7591-7600.	8.0	29
23	Facile Synthesis of In ₂ Se ₃ Nanoflowers toward High Performance Self-Powered Broadband In ₂ Se ₃ /Si Heterojunction Photodiode. <i>Small</i> , 2017, 13, 1604033.	10.0	64
24	Photodetectors: Solvent-Based Soft Patterning of Graphene Lateral Heterostructures for Broadband High-Speed Metal-Semiconductor-Metal Photodetectors (<i>Adv. Mater. Technol.</i> 2/2017). <i>Advanced Materials Technologies</i> , 2017, 2, .	5.8	2
25	A self-powered high-performance graphene/silicon ultraviolet photodetector with ultra-shallow junction: breaking the limit of silicon?. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	7.9	211
26	Photodetectors: A Broadband Fluorographene Photodetector (<i>Adv. Mater.</i> 22/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	1
27	A Broadband Fluorographene Photodetector. <i>Advanced Materials</i> , 2017, 29, 1700463.	21.0	110
28	Solvent-Based Soft Patterning of Graphene Lateral Heterostructures for Broadband High-Speed Metal-Semiconductor-Metal Photodetectors. <i>Advanced Materials Technologies</i> , 2017, 2, 1600241.	5.8	53
29	Cathodic titania nanotube arrays as anode material for lithium-ion batteries. <i>Journal of Materials Science</i> , 2017, 52, 4323-4332.	3.7	8
30	Non-magnetic thin films for magnetic field position sensor. <i>Sensors and Actuators A: Physical</i> , 2017, 254, 89-94.	4.1	15
31	Large, Linear, and Tunable Positive Magnetoresistance of Mechanically Stable Graphene Foam-Toward High-Performance Magnetic Field Sensors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 1891-1898.	8.0	27
32	Black phosphorus ink formulation for inkjet printing of optoelectronics and photonics. <i>Nature Communications</i> , 2017, 8, 278.	12.8	311
33	Molybdenum disulfide grafted titania nanotube arrays as high capacity retention anode material for lithium ion batteries. <i>Applied Nanoscience (Switzerland)</i> , 2017, 7, 67-73.	3.1	4
34	High-performance, flexible graphene/ultra-thin silicon ultra-violet image sensor. , 2017, , .		28
35	In situ synthesis of copper nanoparticles on SBA-16 silica spheres. <i>Arabian Journal of Chemistry</i> , 2016, 9, 537-541.	4.9	17
36	Flexible, Low Cost, and Platinum-Free Counter Electrode for Efficient Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25353-25360.	8.0	21

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37	Effect of the carbon nanotube size dispersity on the electrical properties and pressure sensing of the polymer composites. <i>Journal of Materials Science</i> , 2016, 51, 11014-11020.	3.7	20
38	Three-dimensional macro-structures of two-dimensional nanomaterials. <i>Chemical Society Reviews</i> , 2016, 45, 5541-5588.	38.1	280
39	High Capacity Retention Anode Material for Lithium Ion Battery. <i>Electrochimica Acta</i> , 2016, 211, 156-163.	5.2	44
40	Surface Reforming of Diamond Particles by the Dispersion Enhancement in Common Liquids. <i>Arabian Journal for Science and Engineering</i> , 2016, 41, 97-103.	1.1	0
41	Ferromagnetic (Ni) nanoparticles@CuTi-1223 superconductor composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 403, 60-67.	2.3	7
42	Developing imprinted polymer nanoparticles for the selective separation of antidiabetic drugs. <i>Journal of Separation Science</i> , 2015, 38, 3469-3476.	2.5	9
43	Fabrication of Ag and Ni Nanocatalyst with Enhanced Efficiency. <i>Journal of Chemistry</i> , 2015, 2015, 1-4.	1.9	1
44	Mechanical properties of nickel-graphene composites synthesized by electrochemical deposition. <i>Nanotechnology</i> , 2015, 26, 065706.	2.6	116
45	Two percolation thresholds and remarkably high dielectric permittivity in pristine carbon nanotube/elastomer composites. <i>Applied Nanoscience (Switzerland)</i> , 2015, 5, 969-974.	3.1	27
46	Formation of self-ordered porous anodized alumina template for growing tungsten trioxide nanowires. <i>International Nano Letters</i> , 2015, 5, 37-41.	5.0	6
47	Enhanced Control on the Electro Deposition Through Magnetic Field Using Reverse Microemulsion as Template. <i>Asian Journal of Chemistry</i> , 2014, 26, 6077-6080.	0.3	0
48	Influence of carbon nanotube dimensions on the percolation characteristics of carbon nanotube/polymer composites. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	32
49	Synthesis of SBA-16 Supported Catalyst for CNTs and Dispersion Study of CNTs in Polypyrrole Composite. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1752, 95-100.	0.1	0
50	Rapid assay of the comparative degradation of acetaminophen in binary and ternary combinations. <i>Arabian Journal of Chemistry</i> , 2014, 7, 522-524.	4.9	3
51	Suppression of 3D mobility of carrier and superconductivity by Y ³⁺ substitution in Cu _{0.5} Tl _{0.5} Ba ₂ (Ca _{2-x} Y _x)Cu ₃ O ₁₀ samples. <i>Ceramics International</i> , 2014, 40, 4187-4191.	4.8	3
52	High-temperature thermoelectric properties of La and Fe co-doped Ca _{1-x} Co _x O misfit-layered cobaltites consolidated by spark plasma sintering. <i>Journal of Alloys and Compounds</i> , 2014, 588, 277-283.	5.5	79
53	Molecular Imprinted Titania Sol-Gel Layer for Conductometric Sensing of p-Nitrophenol. <i>Sensor Letters</i> , 2014, 12, 1682-1687.	0.4	1
54	All-organic PANI@DBSA/PVDF dielectric composites with unique electrical properties. <i>Journal of Materials Science</i> , 2013, 48, 3737-3744.	3.7	49

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55	Dielectric properties of oxygen post-annealed $\text{Cu}_{0.5}\text{Tl}_{0.5}\text{Ba}_2\text{Ca}_3(\text{Cu}_{1-y}\text{Cdy})\text{O}_{12}$ bulk superconductor. <i>Ceramics International</i> , 2013, 39, 9591-9598.	4.8	4
56	Effects of carbon nanotubes aspect ratio on the qualitative and quantitative aspects of frequency response of electrical conductivity and dielectric permittivity in the carbon nanotube/polymer composites. <i>Carbon</i> , 2013, 54, 105-112.	10.3	98
57	The effect of aspect ratio on the piezoresistive behavior of the multiwalled carbon nanotubes/thermoplastic elastomer nanocomposites. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	28
58	Modification of Diamond Particles for Improved Dispersion in Liquid Phase. <i>Asian Journal of Chemistry</i> , 2013, 25, 9840-9844.	0.3	2
59	Piezoresistive Behavior of Electrically Conductive Carbon Fillers/Thermoplastic Elastomer Nanocomposites. <i>Journal of Advanced Physics</i> , 2013, 2, 70-74.	0.4	16
60	Template Assisted Synthesis of WO_3 Nanowires. <i>ECS Meeting Abstracts</i> , 2013, , .	0.0	0
61	Structurally modified poly(vinyl alcohol) ionic composites as efficient humidity indicators. <i>Polymer Composites</i> , 2012, 33, 1018-1024.	4.6	4
62	On Refining the Relationship between Aspect Ratio and Percolation Threshold of Practical Carbon Nanotubes/Polymer Nanocomposites. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 080214.	1.5	20
63	Mechanism and properties of piezoresistive in rubber-matrix nanocomposites. , 2011, , .		0
64	Complementary percolation characteristics of carbon fillers based electrically percolative thermoplastic elastomer composites. <i>Composites Science and Technology</i> , 2011, 72, 28-35.	7.8	83
65	On Refining the Relationship between Aspect Ratio and Percolation Threshold of Practical Carbon Nanotubes/Polymer Nanocomposites. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 080214.	1.5	16